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Interpretation of laboratory results and provision of recommendations to farmers

Prof.Dr. Hasan Sabri Öztürk
Soil Scientist and Farmer
Ankara University



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Questions - I

- What do soil analysis reports give us?
- Is soil analysis a definitive solution for recommendations to farmers?
- What is the reliability of the analysis results?
- Results or interpretation?

Questions - II

- Are fertilization and nutrient uptake the same thing?
- Why is it so complicated to interpret the results of the analysis?
- What is the definition of plant available nutrient contents? Who decides that?

Challenges

- changes over short distances (microclimatic conditions, microtopography, moisture and temperature regime of soil),
- plant variety and type,
- expected yield,
- Critical growth period and age of the plant,
- infrastructure for irrigation and fertilising

Common mistakes!

- Ignoring human behaviour and habits
- Ignoring previous crop and harvest yield
- Ignoring antagonistic effects among nutrients
- Paying no attention to the amount of uptake-enhancing compounds or carrier agents in the soil
- Not to following seasonal anomalies (positive or negative) within the production season

Conclusion

- Interpretations based solely on lab results fail.
- Consider returning plant nutrients removed from the soil by harvesting
- Take into account any limitations or amount of existing materials in the soil as well as nutrients in the soil when interpreting



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Thank you for
listening

